

# Range Management Theses 1968-1975

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*A considerable amount of information concerning our range resources is contained in theses and dissertations, many of which are never published. Currently, there is a great demand for information on rangelands, but it is often difficult to obtain thesis and dissertation titles.*

*In the past, the Range Science Education Council has compiled titles of range theses and dissertations (Box 1966; Kinsinger and Eckert 1961, 1962; Schmutz 1967; and Tueller 1968). However, these have not been compiled for some time. Consequently, the current list is broken into sections for publication in several issues of the Journal. Asterisks identify PhD dissertations.*

## UNIVERSITY OF ARIZONA

- \***Bryant, David A. 1971.** Fertilization and burning effects on use of desert grassland by cattle.
- Caraher, David L. 1970.** Effects of longtime livestock exclusion versus grazing on the desert grassland of Arizona.
- Chumo, Samuel K. 1970.** Burroweed (*Haplopappus tenuisectus*) and Lehmann lovegrass (*Eragrostis lehmanniana*) competition.
- DeAraujo, Joao Ambrosio, Filho. 1968.** Carbohydrate storage in roots, underground stems and stem bases of Guineagrass (*Panicum maximum*, Jacq.) as affected by interval of cutting.
- \***Fish, Ernest B. 1973.** Phytosociology studies of a desert grassland site.
- \***Galt, Henry D. 1972.** Relationship of the botanical composition of steer diet to digestibility and forage intake on a desert grassland.
- Hawkinson, Richard O. 1968.** Cover, soil and microrelief characteristics which influence runoff on a desert grassland range.
- \***Knipe, Oren Duane. 1969.** Factors affecting the germination of alkali sacaton (*Sporobolus airoides* Torr.).
- Lacey, John R. 1971.** Estimating forage production under ponderosa pine canopy with the heterodyne vegetation meter.
- \***Maynard, Michael L. 1970.** Some effects of heat on the physiology of mesquite (*Prosopis juliflora*).
- Mbuvi, David M. 1970.** Growth of Guineagrass (*Panicum aximum* Jacq.) following clipping and application of indole-3-acetic acid and gibberellic acid.
- McCleery, Dick R. 1974.** Effect of temperature on germination of selected browse species.
- Metto, Paul K. 1971.** Control of catclaw (*Acacia greggii*) with picloram in southern Arizona.
- Moreno-M., Eudoro. 1968.** Effect of controlled burning on basal cover and soil erosion within a desert grassland community near Cananea, Sonora, Mexico.
- Pinkney, Fred C. 1969.** Factors affecting the distribution of *Hilaria* species in Arizona.
- \***Pinkney, Fred C. 1972.** Carbohydrate reserves and photosynthesis in the *Hilaria* genus.
- Robertson, Judd L. 1971.** An evaluation of four *Eragrostis* species as forage plants for Ceara, Brazil.
- \***Schickedanz, Jerry G. 1974.** Seasonal growth, development, and carbohydrate reserves of three native range grasses in response to seasonal moisture and nitrogen fertilization.

- Smith, David A. 1970.** Successional trends on protected versus grazed desert grassland ranges in Arizona.
- Stevens, Richard. 1968.** The effect of low soil temperatures on the growth and carbohydrate content of the roots of Lehmann lovegrass (*Eragrostis lehmanniana* Nees.).
- Sule, Bello. 1974.** Growth, development, and carbohydrate reserves of side-oats grama (*Bouteloua curtipendula*) and plains lovegrass (*Eragrostis intermedia*).
- Tapia-Sanchez, Carlos Ramon. 1970.** Germination responses of three desert grasses to moisture stress and light.
- Tesfay, Zemo. 1968.** Behavior and grazing preference of fistulated steers on a desert grassland.
- \***Tiedemann, Arthur R. 1970.** Effect of mesquite (*Prosopis juliflora*) trees on herbaceous vegetation and soils in the desert grassland.
- \***Welch, Tommy G. 1973.** Distribution of nitrogen and carbon in ponderosa pine ecosystems as a function of parent material.
- \***White, Larry D. 1968.** Factors affecting susceptibility of creosotebush (*Larrea tridentata* (D.C. Cov.) to burning.
- Wilhelm, Melvin J. 1969.** Germination and seedling growth as affected by alternate wetting and drying of seeds of *Eragrostis lehmanniana* Nees.
- \***Williams, Kenneth B. 1971.** Ecological and morphological variations of *Vauquelinia californica* (Torr.) Sarg. populations in Arizona.
- \***Zere, Gebregiwet. 1971.** Economics of water development on government lands in southern and southeastern Ethiopia.

## UNIVERSITY OF ALBERTA

- Anderson, Murray L. 1972.** The effect of fire on grasslands in the Alberta aspen parkland.
- Hilton, James E. 1970.** Forage production and utilization in the aspen parkland of Alberta following aerial application of 2,4-D and 2,4,5-T.
- Pinchbeck, Brian R. 1972.** Ordinal classification and statistical analysis of lakeshore vegetation.
- Wroe, Robert A. 1971.** Synecology of a *Festuca scabrella* Torr. grassland.

## BRIGHAM YOUNG UNIVERSITY

- Anderson, David Lee. 1974.** Ecological aspects of *Cercocarpus montanus* raf. communities in central Utah.
- Anderson, Terry B. 1973.** Distribution and relationships of Utah brome grasses in western North America.
- Anderson, Marzilla. 1975.** Chemotaxonomical comparison of *Astragalus megacarpus*, *Astragalus beckwithii*, and *Astragalus oophorus* in Utah.
- Atwood, N. Duane. 1969.** Flora of the National Reactor Testing Station (Idaho Falls, Idaho).
- Babbel, Gareth Roy. 1969.** Biochemical and morphological analyses of the *Hordeum jubatum-brachyantherum-caespitosum* hybrid complex.
- Barney, Milo Arnel. 1972.** Vegetation changes following fire in the pinyon-juniper type of west central Utah.
- Bloss, Deborah Ann. 1974.** Some aspects of vegetational response to a moisture gradient on an ephemeral stream in central Arizona.
- Bolander, Ronald B. 1975.** An investigation of the ecology of subalpine fir on the Markagunt Plateau in southern Utah.
- Brewster, Sam F., Jr. 1968.** A study of the effectiveness of precipitation in the salt desert shrub type.
- \***Brewster, Sam Finley. 1971.** The physiological vitality of scarlet globe-mallow, *Sphaeralcea grossulariaefolia* (Hook. and Arn.) Rydberg, under drought.
- Christensen, Robert C. 1972.** Raptor predation on pocket gopher populations by the use of hunting perches.

- Clawson, Michael A. 1973.** Nitrogen fixation by *Artemisia ludoviciana* (Gray sagewort), characterization of the endophyte and factors influencing nodulation.
- Eastmond, Robert J. 1968.** Vegetation changes in a mountain brush community of Utah during eighteen years.
- Firmage, David H. 1969.** A study of conifer invasion into meadows surrounding small lakes and ponds in the trial lake region of the western Uinta mountains.
- \*Foster, Robert Howard. 1968.** Distribution of the major plant communities in Utah.
- \*Frischknecht, Neil C. 1968.** Factors influencing production of flower stalks in *Agropyron cristatum* (L.) gaertn.
- Guerra, S. Luis. 1973.** The effect of insect damage on Indian ricegrass (*Oryzopsis hymenoides*) in western Utah.
- Hansen, Dennis Jay. 1974.** Aspects of salt tolerance of *Salicornia pacifica* standl. var. *Utahensis* (Tidestrom) munn.
- Jefferies, Jane Ardis Murray. 1972.** A revision of the genus *Sphaeral-* (*Malvaceae*) for the state of Utah.
- Kleinman, Larry H. 1973.** Community characteristics of six burned aspen-conifer sites and their related animal use.
- Leslie, Thomas A., Jr. 1975.** An assay chamber of quantitative analysis of nitrogen fixation using intract plants.
- Melby, James Michael. 1972.** A genetic study of gigas *Atriplex canescens*.
- Nichols, David W. 1972.** Small rodent populations and biomass in three sagebrush communities of Rush Valley, Utah.
- \*Parker, Ronald D. 1971.** A study of the effects of two conversion treatments on pinyon-juniper vegetation in Utah.
- Patton, William Wayne. 1971.** An analysis of cattle grazing on steep slopes.
- Pope, C. Lorenzo. 1972.** A study of the phylogenetic relationships of *Agropyron schribneri*, *Agropyron trachycaulum*, and *Sitanion hystrix*.

- Sanderson, Stewart C. 1969.** Phylogenetic relationships of *Purshia tridentata* and *Cowania mexicana*.
- Schoener, Carol Susan. 1975.** A revision of the *Astragalus lentiginosus* complex for the state of Utah.
- Seely, Edwin Montell. 1972.** Investigations of feeding juniper to steers.
- \*Shaw, Robert Keith. 1974.** A taxonomic and ecologic study of the river-bottom forest on St. Mary River, Lee Creek, and Belly River in southwest Alberta, Canada.
- Smigelski, Leopold B. 1968.** Field observations and laboratory studies on growth and tillering in seedlings of *Oryzopsis hymenoides* as affected by selected environmental factors of the sand dunes of Lynndyl, Utah.
- Stutz, R. Craig. 1969.** An investigation of a mycorrhizal association on *Opuntia polyacantha*.
- Thomas, Jerry William. 1970.** A comparison of vegetational changes in a mountain brush type after grazing and protection from grazing during thirty-seven years.
- Tingey, Ward Max. 1968.** Thrips of sagebrush-grass range community in west-central Utah.
- \*Wadsworth, Carl Eugene. 1970.** The effects of herbicide applications on animal populations of aspen communities.
- Wood, James B. 1970.** The effect of alternate year rest rotation grazing on carbohydrate and nitrogen reserves in crested wheatgrass.

## UNIVERSITY OF CALIFORNIA, BERKELEY

- Agee, J. K. 1968.** Fuel conditions in a giant sequoia grove and surrounding plant communities.
- \*Agee, J. K. 1973.** Prescribed fire effects on physical and hydrologic properties of mixed conifer forest and soil.
- \*Barrett, R. H. 1971.** Ecology of the feral hog in Tehama county, California.
- \*Bunnell, F. J. 1973.** Computer simulation on nutrient and lemming cycles in an Arctic tundra west meadow ecosystem.
- \*Carnegie, D. M. 1972.** Large scale 70-mm aerial photographs for evaluating ecological conditions, vegetational changes, and range site potential.
- Erwin, M. J. 1975.** Comparison of the reproductive physiology, molt, and behavior of the California quail in two years of differing rainfall.
- Gee, P. J. 1974.** Roadwise fire hazard in California.
- \*Hooper, J. F. 1969.** Economics of fertilization and rates of grazing in California grassland management.
- James, E. B. 1969.** Botanical composition and productivity in the California annual grassland in relation to rainfall.
- \*Jansen, H. C. 1974.** A resource allocation method for range resource management.
- \*Papanastasis, V. 1973.** Decline of annual ryegrass (*Lolium multiflorum* Lam.) seeded on burned brushlands.

- \*Scattini, W. J. 1973.** A model for beef cattle production from rangeland and sown pasture in southeastern Queensland, Australia.
- \*van Wagtenonk, J. W. 1972.** Fire and fuel relationships in mixed conifer ecosystems of Yosemite National Park.

## UNIVERSITY OF CHIHUAHUA

- Carrasco, Perez Gustavo. 1968.** Contribution al estudio de la vegetacion del Estado de Coahuila.
- Carrera, L. Julio A. 1973.** Consumo de forraje por la liebre (*Lepus spp.*) en dos tipos vegetativos de Chihuahua, Mexico.
- Conrado, Aguirre Francisco. 1970.** Efecto de la condicion de un pastizal mediano abierto sobre la fertilidad del suelo.
- Fierro, Garcia Luis Carlos. 1974.** Influencia de los sombreaderos en el comportamiento del ganado bovino en pastoreo.
- Gutierrez, Alderete Jose Luis. 1969.** Composicion de diferantes tipos de suplementacion practica invernal en forma de comprimidos, de bloques (2 — frecuencias) y de racion preparada a base de harinolina, en vaquillas angus en un pastizal Halofito.
- Ojeda, Garcia Jose Arturo. 1969.** Respuest a de dos tipos de pastizales a la fertilidad de nitrogeno y de fosforo en terminos de produccion forrajera y residuo de nutrientes en el suelo y en las plantas al segundo-ano de su splicacion.
- Portugal, Gedovius Alejandro. 1969.** Evaluacion de la produccion forrajera y—determinacion del uso conjunto de agua de cuatro gramineas nativas— y cuatro introducidas bajo condiciones de riego.
- Sanchez, Brito Carlos. 1971.** La vitamina A y el ganado bovino de carne; Revision bibliografica.
- Valdez, Esparza Guillermo. 1969.** Combate de rata congura (*Depodomys spp.*) en los pastizales de Chihuahua.
- Velazquez, Lorente Maria. 1969.** Utilizacion forrajera del trigo Nadadores 63—en el rancho La Higuera, Mpio, de El Seco, Edo. de Puebla.

## COLORADO STATE UNIVERSITY

- Atkinson, Richard G. 1971.** Salt meadow response to N and paraquat.
- Ayuko, Lucas J. 1968.** The developmental morphology of sideoats grama and switchgrass in northeastern Colorado.
- Baize, John C. 1973.** Factors affecting gains of steers in southeastern Colorado.
- Baker, Charles V. 1968.** Regression analysis of soil-plants relationships in northwestern Colorado.
- \*Beale, Ian Francis. 1972.** Nutritional value of Australian rangeland.
- \*Beck, Reldon F. 1969.** Diets of steers in southeastern Colorado.
- \*Bement, Robert E. 1968.** Forage growth rate and quality on shortgrass range.
- Bledsoe, Lewis Jackson, Jr. 1969.** Models of secondary succession.
- Bluntzer, James S. 1973.** Partial energy budget of the range calf.
- \*Brady, Ward W. 1973.** Patterns of vegetative diversity in the Huachuca Mountains, Arizona.
- \*Brakken, Kent Lenny. 1972.** Effects of herbicides on protein content of plants.
- \*Brown, Larry F. 1974.** Photosynthesis of shortgrass prairie vegetation as influenced by several ecological factors.
- \*Buwai, Malami. 1972.** Carbohydrate reserves as an indicator of vigor in plants.
- \*Cauhepe, Miguel A. 1972.** Energy dynamics of the cow-calf unit.
- \*Child, Dennis. 1971.** Computer techniques in land use decisions.
- \*Dearden, Boyd L. 1974.** Discernibility of plant species.
- Delzell, Robert W. 1968.** A survey of interest group and agency values and attitudes related to the control of big sagebrush.
- \*DeYong, Charles Allen. 1971.** Habitat suitability for deer.
- \*Dittberner, Philip. 1973.** Soil-plant relationships.
- Evans, Gary. 1972.** Computer techniques in resource allocation.
- \*Francis, Richard E. 1972.** Models for predicting dynamics of plant biomass.
- Free, James C. 1969.** Two methods for estimating dry-weight composition in diets of large herbivores.
- Gilbert, Bradley J. 1973.** Flow of forage to herbivores.
- Green, Norman E. 1969.** Occurrence of small mammals on sandhill rangelands in eastern Colorado.
- Hafterkamp, Marshall. 1969.** Effects of fertilizer on big bluegrass.
- Hughes, Joseph. 1969.** Evaluation of dry-weight rank method.
- Hunter, Dennis. 1972.** Subsystem models for land use planning.
- \*Hunter, Dennis H. 1974.** Chance-constrained resource models.
- Johannes, Richard. 1972.** Modeling energy flow in biological systems.
- Lang'at, Robert K. 1968.** Developmental morphology of the shoots of *Bouteloua gracilis* and *Andropogon hallii* in relation to grazing.

- \*Lauenroth, William K. 1973. Effects of water and nitrogen stresses on a shortgrass.
- Lerwick, Alton C. 1974. The effects of the black-tailed prairie dog on vegetative composition and their diet in relation to cattle.
- McLendon, Terry. 1973. Gross energy distribution and vegetation pattern characteristics for a shrub community in Arizona.
- \*Menke, John. 1970. Carbohydrate reserves in nine range species as influenced by development and defoliation.
- Metz, Harley E. 1972. Effects of manipulation of ecosystem functions.
- \*Mitchell, John Edward. 1973. Grasshopper forage consumption.
- Osborn, Lane W. 1972. Seed germination and emergence of saltgrass.
- \*Paschal, James E. 1972. Simulation models and field validation in systems analysis.
- \*Powell, Jeff. 1968. Site factor relationships with volatile oils in big sagebrush.
- \*Redente, Edward. 1972. Rehabilitation of arid ecosystems.
- \*Redetzke, Keith A. 1973. A matrix model of grassland succession.
- Reed, Lloyd D. 1972. Abundance of rodents on sandhill range.
- Reid, Loren D. 1971. Diet similarity between mule deer, elk, and cattle in south central Colorado.
- \*Reid, Loren D. 1973. Food competition between big game and livestock.
- Shaidae, Goodarz. 1968. Relative time required to overcome dormancy for six warm season grass varieties.
- \*Swift, Ralph L. 1972. Suitability of montane landscapes for timber and forage.
- \*Tapia, Mario. 1973. Use of herbicides and nitrogen fertilizers for increased rangeland productivity and increased nutritional value.
- Ueckert, Darrell M. 1968. Diets of some grasshoppers common on mountain hermland in northern Colorado.
- \*Ueckert, Darrell N. 1969. Diets of grasshoppers in northeastern Colorado.
- Volland, Leonard A. 1972. A multivariate classification of lodgepole pine type in central Oregon with implications for natural resource management.
- Walters, Kenneth G. 1972. Multivariate analysis in ecosystem functions.
- Watson, Thomas. 1973. Remote sensing of gopher populations.
- \*Woodmansee, Robert G. 1973. Mountain soils and potassium cycling.
- \*Wright, R. Gerald, Jr. 1973. Demographic models of semi-desert grasses.
- Zuck, Ronald H. 1974. An ecological versus managerial classification of forest communities.
- Faulkner, Frederick Francis. 1971. Elk and cattle trampling effects on reforestation.
- Fiveland, Tor Jostein. 1971. Translocation of IUC-assimilates and 3-amino-1,2,4-triazole and its metabolites in *Agropyron repens*.
- \*Franzmann, Albert Wilhelm. 1971. Physiologic values of Bighorn sheep.
- Froeming, Dennis Karl. 1974. Herbage production and forest cover in the *Pseudotsuga menziesii-Symphoricarpos* habitat type of northern Idaho.
- Gilmour, Campbell McClory. 1973. A statistical estimate of the demand for and value of outdoor recreation in the Sawtooth Valley and Mountain Area, Idaho.
- Gladfelter, Harold Lee. 1967. Nocturnal behavior of white-tailed deer in the Hatter Creek enclosure.
- Hickey, William Oscar. 1972. Response of *Ceanothus sanguineus* to cutting and burning at various stages of phenology.
- Hooker, Larry Lee. 1973. Effects of prescribed burning on soils and vegetation on seral brush communities in the Lochsa River Region of northern Idaho.
- \*Howard, Volney Ward. 1969. Behavior of white-tailed deer within three northern Idaho plant associations.
- Judd, Steven Lee. 1972. Range and migrations of the Lochsa elk.
- Klebenow, Donald Allen. 1968. The nesting and brood habitat of sage grouse.
- Knowles, Kenneth. 1974. An evaluation of larkspur poisoning in cattle and the trampling damage that occurs during grazing on a summer range in eastern Idaho.
- Kraselt, Wayne Allen. 1974. An economic analysis of the movement of beef and products in Idaho and between Idaho and other states.
- Lauer, Jerry Lynn. 1974. A vegetational inventory of big game winter range in the Salmon River Canyon.
- Lee, Kit Ha. 1969. The genus *Haplopappus* in Idaho.
- Logan, John R. 1974. Evaluation of a specifically formulated supplement for the prevention of larkspur poisoning in cattle.
- McLean, Larry Scott. 1973. Movements and migrations of the Lochsa elk herd.
- Money, Dennis Lee. 1974. Mule deer habitat and habitat use in the Pahsimeroi Valley, Idaho.
- \*Nelson, Jack Raymond. 1970. Taxonomic and autecological studies of salt-sage.
- Nicholson, Allen Bruce. 1974. Rangeland use and food habits of mule deer in the Pahsimeroi Valley, Idaho.
- Niknam-Asl, Fereidoon. 1970. Range problems in Theran Ostan of Iran.
- Olsen, Thomas Ernest. 1971. Utilization and supplements of cheatgrass in southern Idaho.
- Peckfelder, Robert Larry. 1974. Wild river perception and management: a study of users and managers of the middle fork of the Salmon River.
- \*Qureshi, Muhammad Anwar. 1970. Vegetational classification: an attempt to classify seral vegetation.
- Reese, Jerry Bruce. 1970. Impact of grazing on root weight, growth reserves, tillering and forage production of crested wheatgrass.
- Ritchie, Brent Wiley. 1969. Status of the Craters of the Moon National Monument deer herd.
- Roberts, Robert William. 1971. Bitter cherry vegetation on the Boise National Forest.
- Roper, Laren Alden. 1970. Some aspects of the synecology of *Cornus nuttallii* in northern Idaho.
- \*Schlatterer, Edward Frederick. 1968. Establishment and survival of the native grasses under natural and artificial conditions.
- Selassie, Ephriam Haile. 1974. An economic evaluation of range improvements in southern Idaho.
- Seraj, Nowzar. 1973. Improvement of utilization of Iran's Kholeshkug Range by management planning.
- Sindelar, Brian William. 1968. An investigation of the competitive ability of *Sitanion hystrix*.
- Skiles, Joseph Warner, III. 1971. Carbon dioxide exchange in subspecies and ecotypes of *Artemisia tridentata* Nutt.
- Spagnoletti, Timothy James. 1974. The effect of aspect and parent material on development of some soils and their related vegetation in Boundary County, Idaho.
- Steele, Robert Wilmer. 1971. Red alder habitats in Clearwater County, Idaho.
- Toner, Frank David. 1972. Implications of nutrient deficiencies and gonadal hormone levels on the etiology of pine needle abortions in rats and cattle.
- Wells, Walter George. 1970. Assimilation of Biuret by the ruminant.
- \*Wing, Larry Dean. 1970. Ecology and herbivore use of five mountain meadows in the Idaho Primitive Area.
- \*Winward, Alma H. 1970. Taxonomic and ecological relationships of the big sagebrush complex in Idaho.

## HUMBOLDT STATE UNIVERSITY

- Gilbert, William L. 1972. Deer use in relation to nutrients and forage availability on six soils in southeastern Humboldt County, California.
- Krueger, William C. 1970. Lignin, protein, and sugar relationships of plants on different soils of California north coast.
- Lemos, James C. 1971. Roosevelt elk utilization of redwood forest cutovers in relation to regrowth and forest management.
- Williams, Marc R. 1972. Black-tailed deer use and selected site factors.

## UNIVERSITY OF IDAHO

- \*Asherin, Duane Arthur. 1974. Prescribed burning effects on nutrition, production and big game use of key northern Idaho browse species.
- Base, Steve Richard. 1969. Woodland soil-site correlation in northern Idaho.
- Briggs, George Sidney. 1971. *Crataegus douglasii* in succession to *Pinus ponderosa* forest on the Kalispell Indian Reservation.
- \*Burkhardt, Jerold Wayne. 1969. Western juniper invasion in southwestern Idaho: an analysis of cause.
- Chamberlain, David Jack. 1973. Supplementation of bred beef heifers grazing crested wheatgrass range during fall and winter months.
- Claar, James Jay. 1974. Correlations of ungulate food habits and winter range conditions in the Idaho Primitive Area.
- Colborg, Arlin Eugene. 1972. Soil compaction effects of livestock grazing on a crested wheatgrass seeding in southern Idaho.
- David, James Lous. 1970. Elk use of spring and calving range during and after controlled logging.
- Dean, Ronald Edward. 1969. Rest rotation grazing on the Pleasant View Unit in Oneida County, Idaho.
- DeMarchi, Dennis Alvin. 1970. Effects of grazing on the botanical and chemical composition of range vegetation in the lower Chilcotin River Region, British Columbia.
- Drew, Larry Albert. 1967. Comparative phenology of seral shrub communities in the cedar/hemlock zone.
- Drewek, John, Jr. 1970. Population characteristics and behavior of introduced Bighorn sheep in Owyhee County, Idaho.
- Erickson, Duane Hilding. 1969. Environmental and herbicidal effects on Canada thistle (*Cirsium arvense* (L.) Scop.).
- Falen, Leslie Roger. 1968. Some factors affecting intake and digestion of low-quality forage by ruminants.